ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Life Technologies™ Your Molecular & Cell Technology Partner

Human Salivary Amylase Antibodies

Cat. # SAMY16-A	Rabbit Anti-Human Salivary Amylase IgG # 1 **FORM**: Soln Lyophilized.	**SIZE**: 100 ul
Cat. # SAMY16-C	Human Salivary Amylase protein WB +ve Control **FORM:** Soln	**SIZE**: 100 ul

Carbohydrates are an important component of the diet. The carbohydrates that we ingest range from simple monosaccharides (glucose, fructose and galactose) to disaccharides (lactose, sucrose) to complex polysaccharides. Most carbohydrates are digested by salivary and pancreatic amylases, and are further broken down into monosaccharides by enzymes in the brush border membrane (BBM) of enterocytes.

The alpha-amylases hydrolyze alpha-1,4-glucoside bonds in polymers of glucose units. Amylase is found in 2 amylase isoenzymes in serum, one produced by the salivary gland and the second by the pancreas. Alpha-amylase is a major and well-characterized component of human saliva. In the mouse the salivary and pancreatic amylases are determined by genes at closely linked. The separate loci in the human were designated AMY1 (salivary) and AMY2 (pancreatic). Amylase genes is located at chromosome 1p22.1-p21 region. Salivary amylase (511 aa human) is a secreted protein. Pancreatic amylase A or AMY2A is coded by at least 4 structural gene, whereas only a single gene, different from any of the pancreatic genes, codes for salivary amylase.

Source of Antigen and Antibodies

Antigen	Purified human salivary alpha-amylase
Ab Host/type	Rabbit, polyclonal IgG
Ab Format	Chromatographically purified IgG (**cat # SAMY16-A**) supplied in PBS, pH 7.4 (no preservative).
2-ab	**Goat Anti-rabbit IgG-HRP** cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as –ve control

Human salivary amylase alpha protein is an amylase-enriched protein preparation of human saliva. **Human amylase protein for WB +ve control**, **Cat # SAMY16--C**, is formulated in SDS-PAGE sample buffer (reduced). This preparation is not biologically inactive. It is not suitable for ELISA or other applications where native protein is required. It is supplied in 100 ul/vial. For WB, heat once and load 10 ul/lane and visualize with appropriate antibodies. This preparation is intended for qualitative purpose and not to serve as standard of known concentration. Store frozen in suitable aliquots. Do not freeze, thaw, or hear repeatedly.

Recommended Usage

Western Blotting (1:500-1:5 K) using ECL technique. Human salivary amylase is ~55-60 kda.

Histochemistry & Immunofluorescence: Not tested.

Specificity & Cross-reactivity

Antibody specificity is tested by immunoelectrophoresis (IEP) against the anti-rabbit IgG and whole serum yielding a single precipitin arc. The antibody may also some reactivity to pancreatic amylase in Ouchterlony technique.

was somatic **ACE11-P** control peptide is 81% conserved in rat and 87% in human s-ACE. No significant sequence homology exist with the t-ace of any species. Antibody (**cat # SAMY11-A**) cross-reactivity in various species is not known. Control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity

General References: Groot PC (1990) Genomics 8, 97-105; Gumicio DL (1988) Mol. Cell. Biol. 8, 1197-1205; ; Nishide T (1986) Gene 41, 299-304;

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

100 ug/100ul solution lyophilized powder
Supplied in **Buffer**: PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

100 ug/100 ul solution lyophilized powder
Supplied in Buffer: PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at –20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at –20oC or below.
Shipping: 4oC for solutions and room temp for powder.

**This product is for In vitro research use only.*

Related material available from ADI

SAMY16-A, SAMY16-C 70309A

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